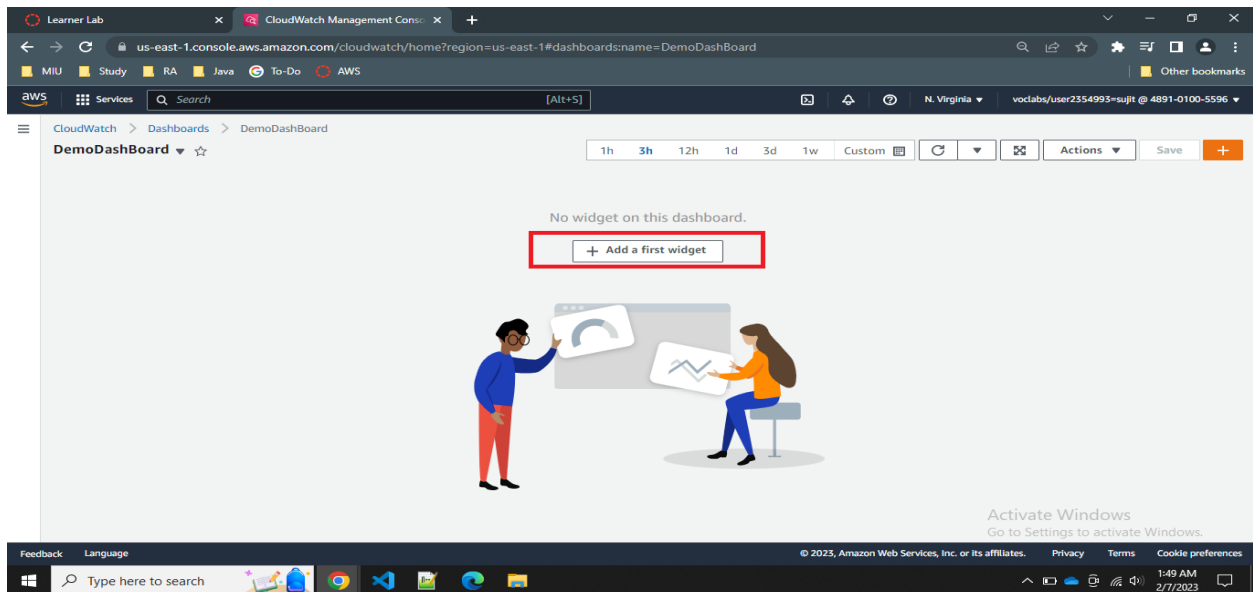


CloudWatch Dashboard

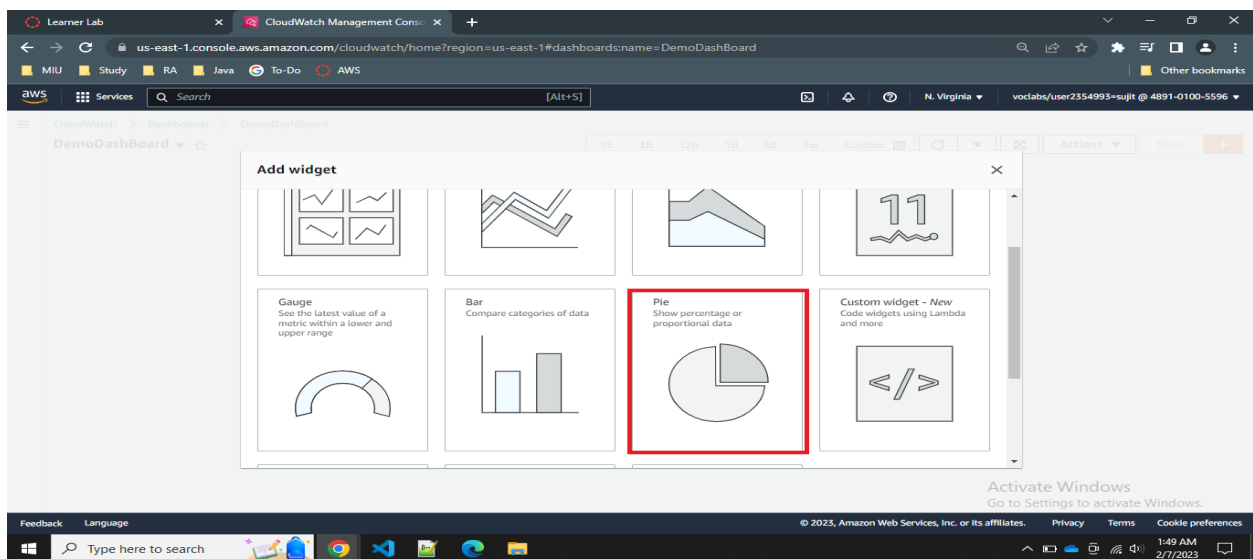
Amazon CloudWatch dashboards are customizable home pages in the CloudWatch console by which we can monitor resources in a single view. If resources are in separate region then we can create a customized cloudwatch dashboard. We can use CloudWatch dashboards to create customized views of the metrics and logs. Here we shall create a dashboard using lambda function log data.

Implementation Steps:

Step 1: Create a dashboard and hit add a first widget option.



Step 2: Select any widget. In this case we select pie chart.



Step 3: After selecting the widget, we need to select the log insights associated with that Lambda function. They write the query and hit the run query button.

The screenshot shows the AWS CloudWatch Logs Insights console. A notification at the top says "You are creating a new widget for the dashboard DemoDashboard." with a "Create widget" button. Below, the "Logs Insights" section is active. A dropdown menu shows the selected log group: `/aws/lambda/portfolioMicroService1`. A query is entered in the text area:

```
1 fields @timestamp, @message, @logStream, @log, errorMessage
2 | sort @timestamp desc
3 | stats count(*) by errorMessage
4
```

The "Run query" button is highlighted with a red box. Below the query, it says "Queries are allowed to run for up to 30 minutes." At the bottom, there are tabs for "Logs" and "Visualization", and a "Pie" chart type is selected.

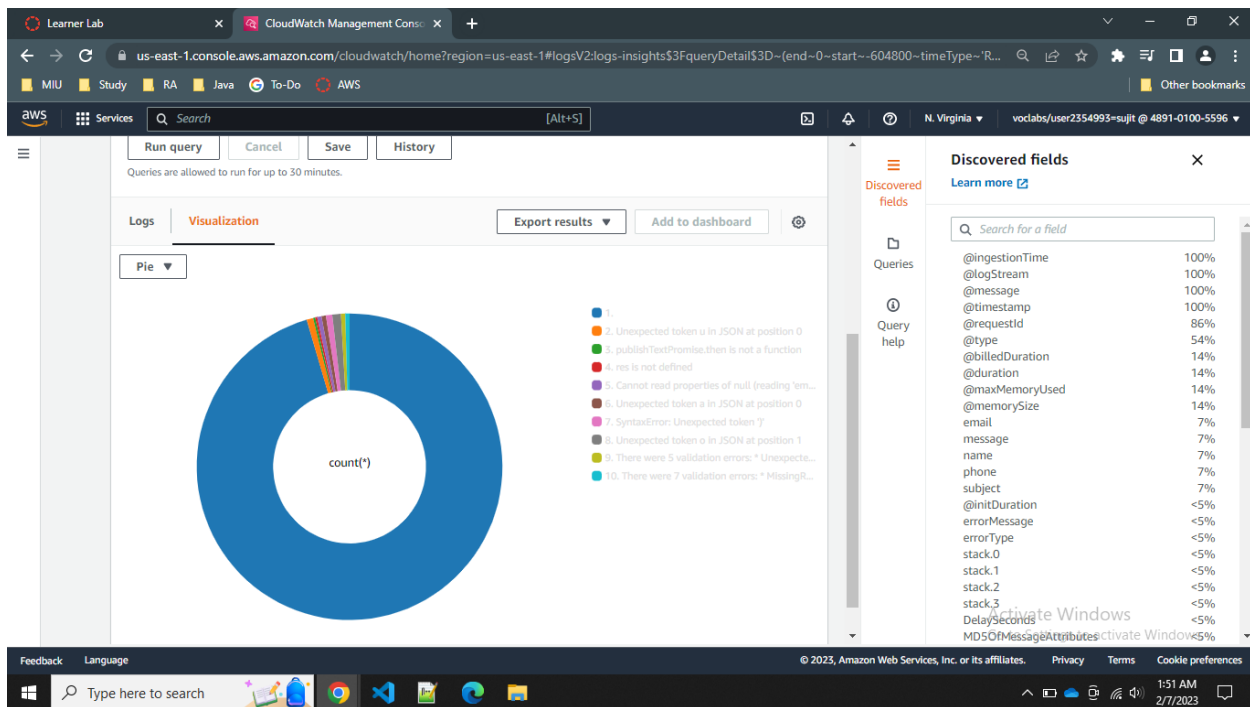
Step 4: After hitting the run query button we can see the logs in Logs tab and in Visualization tab we can see the pie chart.

The screenshot shows the AWS CloudWatch Logs Insights console after the query has been executed. The "Logs" tab is active, displaying a list of log records. The "Visualization" tab is also visible, showing a pie chart. The "Run query" button is still visible at the top. The "Logs" tab shows a histogram and a table of results:

Showing 10 of 442 records matched
442 records (117.1 kB) scanned in 5.0s @ 87 records/s (23.2 kB/s)

#	errorMessage	count(*)
1		422
2	Unexpected token u in JSON at position 0	3
3	publishTextPromise.then is not a function	1
4	res is not defined	1
5	Cannot read properties of null (reading 'email')	2
6	Unexpected token a in JSON at position 0	2
7	SyntaxError: Unexpected token '}'	3
8	Unexpected token o in JSON at position 1	4
9	There were 5 validation errors: * UnexpectedParameter: Unexpected key 'st.	2
10	There were 7 validation errors: * MissingRequiredParameter: Missing requi.	2

The "Visualization" tab shows a pie chart. On the right, the "Discovered fields" panel is visible, listing various fields and their counts.



Step 5: Finally hit create widget button and a pie chart will be appear in the dashboard. We can select custom time range to see the logs visualization.

